MASP INSTRUCTIONS

All the information required to complete this document may not available during the planning stages, for example, the charge code or flight hour cost. Pages 1-10 require total completion for Regional Office review and a Line Officer's signature; acceptable missing information for pages 1-10 will have an "unknown" box to check. Partial completion of pages 11-14 is acceptable during the planning and approval process. All pages shall be completed prior to mission start.

RISK MATRIX INSTRUCTIONS

Risk assessment processes and risk decision approvals follow the guidelines set forth in the Aviation Risk Management Workbook, aka the "yellow book." The risk outcomes on the risk assessment matrix (page 5) have been incorporated into risk assessment worksheet's drop-down menus. Risk outcomes are categorized as follows:

LOW MEDIUM SERIOUS HIGH

In no case will the overall risk of the mission be less than the highest specific factor. (Example: One high, one serious, and two medium threats couldn't result in anything less than a high risk outcome).

SIGNATURES

Route all MASP's through the Unit/Forest Aviation Officer for Regional Office review. Signature blocks on page 2 are listed in the order required for MASP approval. The MASP's will be routed back down through the Unit/Forest Aviation Officer (AO) for line officer approval. MASPs will be submitted as a word document and will be returned in PDF format for the approving official's signature.

All signature boxes up to the Aviation Officer will be signed in typed text:

Example: /s/ John M. Smith

The Aviation Safety Manager (ASM) and the Aviation Officer will sign with link pass digital signatures. Line officer signatures may sign with a wet signature or link pass digital signature at their discretion.

RETENTION AND FILING OF PLAN

MASPs that have been reviewed by the Regional Office will remain in Pinyon and archived by fiscal year. These plans are accessible by the Regional Office, Unit/Forest Aviation Officers, and select aviation managers. MASP's approved by the line officer will be stored with the prescribed fire burn plan by the burn boss. The MASP and daily briefing sheets completed by the mission manager shall be given to the unit aviation manager for storage up to one year. Reference current PMS 510 Standards for Helicopter Operations (SHO) for additional information.

<u>Unit</u> : Bridger-Teton NF					Unit : Click here	e to enter	text.		
				L					
Agency	Requesting	Mission	Anticipated I	Date(s) Y	'ES⊠ NO □		Calendar Year		
FS 🔀	BLM	Calendar Yea	ar YES] NO⊠	→	Choose an item.			
F'	WS 🗌 BIA		Date Variano	e Accept	able YES 🔲 I	мо□			
STAT	E OTH	IER 🔀			on approved	elow			
	Aircraft Typ	<u>e</u>			te(s) box is sel				
Fixed	Rotor	UAS	Start D		End Da		MASP Objectives		
			5/1/20	20	5/1/202	21	Training Resource LE&I Mission(s) Incident		
Mission p	repared by:	David A. Go	mez	<u>Title</u> : Officer	Interagency	Aviation	4/2/2020		
	eviewed by: to enter tex	(OPTIONAL) ct.) Unit Level:	Title: Ch	noose an item.		Click here to enter a date.		
	eview by: (C	OPTIONAL) R eter text.	egional	Title: Ch	noose an item.	Click here to enter a date.			
Mission reviewed by: (REQUIRED) Click here to enter text.					noose an item.	Click here to enter a date.			
Mission reviewed by: (REQUIRED) RASM: Digitally signed by NIKKI SANDHOFF Date: 2020.04.08 10:04:26 -06'00'					egional Aviatio er	See signature for date.			
	eviewed By:	C (REQUIRED Digitally signed by RAMSAY Date: 2020.04.02	y SAMUEL	Title: Re	egional Aviatio	See signature for date.			
Mission and Risk Assessment approved by: (REQUIRED) - Line Officer:					<u>Title</u> : Forest Supervisor See signature date.				

Digitally signed by PATRICIA O

PATRICIA O CONNOR CONNOR Date: 2020.04.15 08:40:38 -06'00'

** Participant's qualifications and responsibilities verified/discussed during daily briefing**

Mission Supervisor: Line Officer and UAS Manager TBD **Alternate Mission Supervisor:**

Click here to enter text.

Mission Name

UAS Remote Sensing

<u>Mission Description and Location</u>: This plan is applicable to any PSD aerial ignition, remote sensing data acquisition and/or aerial surveillance accomplished through the use of sUAS for the BTF and GRTE. Examples of aerial observation data that may be obtained using sUAS under this plan are, but not limited to: visible and multispectral imagery, infrared imagery; Electro-Optical/Infrared video; LIDAR; meteorological observations, air/chemical measurements, etc.

Criteria for Application of this Plan:

If more than one aircraft (UAS and manned aircraft) must be flown simultaneously applicable mitigations will be in place to ensure airspace conflict avoidance. Project areas should be small in scale to limit complexity enabling aerial ignition and aerial surveys to be performed within visual line of site of the sUAS operator. Applicable areas should also present limited access and a work environment for personnel where there is high probability of hazard encounter. The potential hazards that are expected to be encountered during egress, ingress, or while on site must pose moderate to high consequence threats to personnel. Project managers may also consider the comparison of cost effectiveness and technical feasibility of project implementation with a sUAS versus manned aircraft.

Special Instructions:

UAS missions performed under this plan will adhere to Federal Aviation Administration (FAA), Forest Service, and Department of Interior aviation policies and requirements, including necessary authorizations and permits (certificates of authorization, etc.). Missions will be conducted only with approved aircraft and operators.

The UAS pilot is responsible for obtaining project specific flight hazard intelligence, submitting a NOTAM of the operation when applicable, developing any supplemental flight planning documents, alerting Teton Interagency Dispatch Center (TIDC) or incident communications of initiation and termination of flight operations, and maintaining positive communication with TIDC/incident communications throughout the operation. The UAS flight crew and participants will conduct the PASP briefing found within this plan and complete a Preflight Briefing Checklist at the beginning of each operational period. A visual observer will be used at all times.

<u>Mission Objectives</u>: PSD aerial ignition will be used to achieve management goals described in an approved planned ignition plan or incident plan. Data acquired via remote sensing will be used to develop derivative products and information to support management decisions and actions for various FS business activities, including, but not limited to, engineering and maintenance, infrastructure assessment, geotechnical surveys, forest health surveys, forest/range inventory and analysis, riparian surveys, wildlife surveys, invasive species surveys, fire/incident response and management, etc.

<u>Aircraft Justification For Mission</u>: The use of sUAS for aerial ignition and to obtain remote sensing observation data from areas described in the criteria for application of this plan significantly reduces the number of personnel and length of exposure to higher probability hazard encounters in the air and on the ground. The use of sUAS for these projects limits exposure of personnel to higher consequence hazards associated with manned aircraft operations. This plan permits aerial ignition and collection of data over inaccessible terrain. The use of sUAS may also limit negative optics from the public associated with agency access to closed areas. This plan also enables the comparison of products from traditional methods and techniques relative to products derived from sUAS.

Aircraft Information:							
Check all that apply, if name is unknown, ac	dd information to safety plan briefing sheet						
Leave text fields I	blank if unknown						
All cooperators require an annual appr	oval letter onboard except DOJaircraft						
Cooperator Click here to enter te	kt. Agency Click here to entertext.						
Vendor \boxtimes Click here to enter text.	Military Click here to enter text.						
Other Click he	ere to enter text.						
Rotor Wing: Type One Type	Two Type Three						
*Document additional requirements beyond star	•						
order* (performance capa							
Fixed Wing: Single Engine	Twin Engine						
*Document mission needs for turbine, twin-engin cabin, radio package, etc. in the aircraft just							
UAS: TBD Public Commercia	*Refer to Forest Service policy on UAS use						
<u>Aircraft Make and Model:</u> Refer to safety plan brie model.	fing sheet for vendor name, make, FAA# and						
Vendor: Click here to enter text.	Tail number: Click here to enter text.						
Model: Click here to enter text. Unknown	n CWN Unknown EU						
** CWN helicopter information	attained after hiring process**						
**Unknown or multiple aircraft in use (CWN or EL	J)- mark appropriate boxes, have CWN inspection						
sheet or copy of aircraft data card on f	file with MASP for aircraft data only**						
Procurement and Cost Information: Check unknown if unable to provide accurate or estimated information.							
Procurement Type: Agency or Cooperator	Estimated Flight Hour Cost: Click here to enter text.						
Choose an item. Unknown	Unknown X						
Missioned Flight Hours: Click here to enter text. Unknown Estimated Miscellaneous Cost(s): Click here to enter text. enter text.							
	Unknown						
Charge Code: agency program preparedness,							
severity, or incident code Unknown							

UAS Missions Only

Crew: Other Than Pilot: TBD	
UAS Crew Leader: Click here to enter text.	Contact Number: Click here to enter text.
UAS Data Specialist (1): Click here to enter text.	Contact Number: Click here to enter text.
UAS Data Specialist (2): Click here to enter text.	Contact Number: Click here to enter text.
UAS Visual Observer (1): Click here to enter text.	Contact Number: Click here to enter text.
UAS Visual Observer (2): Click here to enter text.	Contact Number: Click here to enter text.
Additional Crew: Click here to enter text.	Contact Number: Click here to enter text.
TFR Information: Click here to enter text.	
Airspace Authorization:	
·	
	I Waiver
	_ <i>,</i>
☐ Part 107 ☐ 107/LAANC ☐ SG	_ <i>,</i>
☐ Part 107 ☐ 107/LAANC ☐ SG	will be in place at time of implementation.
Part 107	will be in place at time of implementation.
Part 107	will be in place at time of implementation.
Part 107	will be in place at time of implementation.
Part 107	will be in place at time of implementation. e to enter text.
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Part 107	will be in place at time of implementation. e to enter text.
Part 107	will be in place at time of implementation. e to enter text.
Part 107	will be in place at time of implementation. e to enter text.

Mission risk assessment must be completed prior to mission approval

Risk assessment hazards shall be reassessed prior to starting the mission – see FRAT

**See appropriate management level for approval **

See National Aviation Safety Management System Guide for additional guidance with Risk Assessments, if necessary

**This Risk Assessment does not negate the requirement to complete a FRAT prior to flight. **

Mission Risk Assessment Matrix Scale								
	Severity							
Likelihood	Negligible IV	Marginal III	Critical II	Catastrophic I				
Frequent A	2	3	4	4				
Probable B	2	3	4	4				
Occasional C	1	2	3	4				
Remote D	1	2	2	3				
Improbable E	1	2	2	2				

Severity and Likelihood Scale Definitions					
	Severity	Likelihood			
Catastrophic	Fatalities and or loss of the system.	Frequent	Likely to occur and continuously experienced.		
Critical	Severe injury and or major system damage.	Probable	Will occur several times and occur often.		
Marginal	Minor injury and or minor	Occasional	Likely to occur sometimes and will occur several times.		
Negligible	system damage.	Remote	Unlikely to occur, but possible. Unlikely, but expected to occur.		
Negligible	Less than minor injury and or less than minor damage.	Improbable	So unlikely, assume it will not occur. Unlikely to occur, but possible.		

A	Appropriate Management Level for Operational Risk Decisions							
Risk Level	Fire	Mission						
High	Incident Commander or Operations Sections Chief	Line Officer						
Serious	Incident Commander or Operations Sections Chief	Line Officer						
Medium	Air Operations Branch Director	Mission Aviation Manager						
Low	Base Manager	Helicopter or Flight Manager						

	SAFETY MANAGEMENT SYSTEM ASSESSMENT AND MITIGATION								
System Being Evaluated: UAS Aerial Ignition – PSD		Pre Mitigation					Post Mitigation		
Sub System(s)	Hazards	Likelihood	Severity	Risk Level	Mitigation	Likelihood	Severity	Risk Level	
UAS Mission	Collision with another aircraft	Remote	Catastrophic	Serious	The remote pilot will utilize a visual observer (VO) who will scan the area for air traffic and other hazards to aviation. The remote pilot will file a NOTAM as per USFS/DOI/FAA policy. Flights within TFRs will be coordinated with the controlling authority and participating aircraft. The remote pilot will give way to manned aircraft.	Improbable	Catastrophic	Medium	
UAS Mission	Collision with personnel or vehicles	Occasional	Critical	Serious	The remote pilot will conduct a pre-flight briefing which will include flight patterns and safe observation/parking areas. The remote pilot will not fly the UAS over personnel or vehicles.	Remote	Critical	Medium	
UAS Mission	Collision with a fixed aerial hazard	Probable	Catastrophic		The remote pilot will conduct a survey of the operations area prior to flight operations.	Improbable	Negligible	Low	
UAS Mission	Aircraft flyaway (loss of control)	Probable	Critical	Serious	Aircraft, personnel and ATC having jurisdiction over the airspace will be notified with the last location, heading, speed and approximate battery/time remaining of the UAS. The crew actions to recover the UAS will be relayed as well.	Remote	Negligible	Low	

SAFETY MANAGEMENT SYSTEM ASSESSMENT AND MITIGATION								
System Being Evaluated: UAS Aerial Ignition – PSD		Pre Mitigation			Post		st Mitigation	
Sub System(s)	Hazards	Likelihood	Severity	Risk Level	Mitigation	Likelihood	Severity	Risk Level
UAS Mission	Aircraft loss of link with ground control station	Probable	Critical	Serious	UAS will be programmed to return to home and land	Occasional	Negligible	Low
UAS Mission	Injury caused by spinning propellers	Occasional	Critical	Medium	Preflight briefing will include safety precautions when working around UAS with motors running.	Occasional	Negligible	Low
UAS Mission	Adverse Weather (wind, thunderstorms, etc.)	Occasional	Critical	Serious	Remote pilot will obtain a current forecast and ensure the aircraft is flown within approved parameters. The crew will monitor weather conditions periodically during flights.	Occasional	Negligible	Low
UAS Mission	Night operations	Occasional	Critical	Serious	The UAS will have USFS/DOI approved lighting. The launch and recovery area will be well lit.	Occasional	Negligible	Low

SAFETY MANAGEMENT SYSTEM ASSESSMENT AND MITIGATION								
System Being Evaluated: UAS Aerial Ignition – PSD		Pre Mitigation			Po		Post Mitigation	
Sub System(s)	Hazards	Likelihood	Severity	Risk Level	Mitigation	Likelihood	Severity	Risk Level
UAS Mission	Battery fire	Occasional	Critical	Serious	Batteries will be stored in approved containers. A fire extinguisher will be available on site.	Remote	Critical	Medium
UAS Mission	Operating aircraft outside of published parameters	Occasional	Marginal	Medium	The remote pilot will ensure the aircraft is operated within policy and the provisions of the aircraft operations manual.	Remote	Marginal	Low
PSD Mission	Lack of training in firefighting strategy, tactics, terminology, basic ICS, frequency management, etc.	Probable	Critical	High	Establish requirements for documentation of online training to meet basic, minimum level of knowledge for all contracts. Consider pilot academy.	Occasional	Marginal	Medium
PSD Mission	Fatigue	Probable	Critical	High	Managers work with flight personnel to ensure adequate rest. Manage missions to be most effective with proper use of pilots & aircraft. Implement Phase Duty Limitations as appropriate	Remote	Critical	Medium

SAFETY MANAGEMENT SYSTEM ASSESSMENT AND MITIGATION								
System Being Ev	raluated: UAS Aerial Ignition – PSD	Pre Mitigation		tion			Post Mitigation	
Sub System(s)	Hazards	Likelihood	Severity	Risk Level	Mitigation	Likelihood	Severity	Risk Level
PSD Mission	Low CRM with crew rotations (multiple relief pilots)	Frequent	Critical	High	Ensure there incoming crews are thoroughly briefed. Practice CRM, conduct effective AARs, etc. Enforce contract language regarding relief pilot/personnel changes.	Occasional	Marginal	Medium
PSD Mission	PSD Operations	Occasional	Critical	Serious	Conduct orientation flight with Ignition Specialist, hang fire mitigation and escaped fire contingency established, complete all operational checklists prior to starting operations.	Occasional	Marginal	Medium
PSD Mission	In flight PSD Malfunction/Fire	Remote	Critical	Medium	Emergency procedures covered by Remote Pilot, Visual Observer and Burn Boss/Ignition Specialist in pre-burn briefing. Emergency release operations tested before flight	Remote	Critical	Medium
Final Assessment: Low Medium Serious High David A.				•	4/2/2020			
	Add Addition	al Rows	To The	Missic	on Risk Assessment As Necessary			

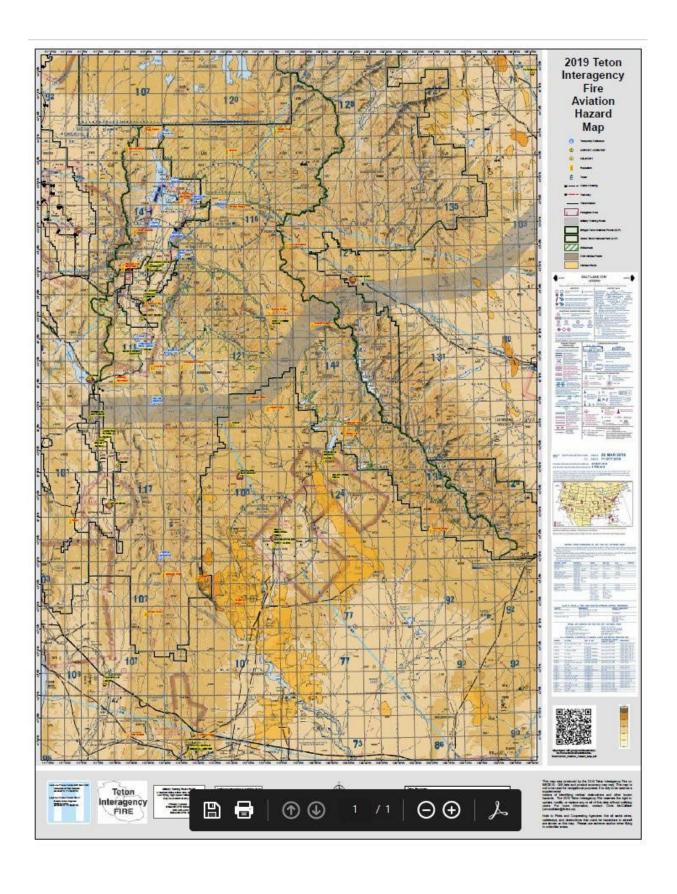
^[9]

Aerial Hazard Analysis and map: This plan is applicable to a broad area, however has specific criteria for application in the plan description on page 2. Pilots and UAS managers shall review this material during their mission planning, assure applicable authorizations are in place (COA's, LAANC, SGI Waiver, etc.), and be familiar with local airports and fixed based operators. Attached to this MASP is a list of local airports and fixed based operators enabling direct communication with airport management or tower personnel if necessary. The aircrew will also consult the unit aerial hazard map, assess weather conditions, and terrain for each mission operating area.

Aerial Hazard Map Link and QR code:



https://gacc.nifc.gov/gbcc/dispatch/wy-tdc/home/sites/default/files/site-files/Current Aviation Hazard Map.pdf



Aircraft Performance Planning:

The pilot is responsible for the accurate completion of load calculations or PPC (military performance planning). Trained personnel shall ensure that aircraft scheduled are capable of performing the mission(s) safely and within the capabilities of the aircraft selected. The helicopter or flight manager shall ensure that manifests, load calculations, weight & balance are completed properly using accurate environmental and aircraft data. Reference SHO chapter 7 or chapter 70 of the Military Use Handbook for additional information.

Personal Protective Equipment: * Always refer back to current ALSE, SHO, and manual direction*						
Type of Operation- Check applicable boxes that may apply to mission or mission	Personnel protective equipment requirements					
☐ Rotor Wing Ground Operations	Fire resistant clothing, hard hat w/chin strap or SPH-5 flight helmet or other approved model, fire resistant and/or leather gloves, all leather boots, eye protection, hearing protection. *Refer to the Interagency Aerial Ignition Guide for additional ground operation requirements.*					
☐ Rotor Wing	Fire resistant clothing, SPH-5 flight helmet or other approved model, hard hat w/chin strap, fire resistant and/or leather gloves, all leather boots, eye protection, hearing protection. Additional personnel restraints needed in the helicopter pending type of mission. * Refer to appropriate guides. * Charter flights, (non-agency controlled mission), shall comply with 14 CFR 135 requirements.					
☐ Doors Off Flight(s)	Personnel will remain seated and inside fuselage during all flights, approved secondary restraint harness for doors off flights (only for PLDO, HRAP, HRSP, Aerial Photography, IR Operator, ACETA Gunner, Cargo Letdown, Short Haul Spotter, Cargo Free Fall Operations-type 3 helicopter) * Refer to appropriate guides*					
☐ Cargo Free Fall Operations	Fire resistant clothing, SPH-5 flight helmet or other approved model, fire resistant and/or leather gloves, all leather boots, eye protection, hearing protection. Additional qualifications, compliance with rotorcraft manual and approved restraint requirement apply. * Refer to SHO chapter eleven for additional details. *					
Fixed Wing	Refer to current IASG, ALSE and 5700 manual directions for PPE requirements.					

mission(s). Any unknown information shall be added qualified for mission.	
Pilot Name (P1): PIC/Primary Not applicable	<u>Pilot Phone Number:</u> Click here to enter text.
Pilot Name (P2): Co-Pilot/Relief Click here to enter text.	Pilot Phone Number: Click here to enter text.
Pilot Carded For Mission: Yes No Charter Pilot 135 Certificate and FAR's Apply	<u>Pilot Card (P1) Expiration Date:</u> Click here to enter a date.
** Use of charter pilot requires regional forester approval** Check all boxes that apply to pilot's carding below:	Pilot Card (P2) Expiration Date: Click here to enter a date.
Low-Level Recon & Survey P1 P2 Helitack-Passenger Transport P1 P2 External Load (Belly Hook) P1 P2 Water-Retardant Delivery P1 P2 Longline VTR (150') P1 P2	Designated "Pilot Trainer" P1 P2 "Trainee Only" Pilot P1 P2 Short Haul LE SAR P1 P2 Float Operations (Fixed) P1 P2 Platform Landings-Offshore P1 P2
Snorkel VTR Mirror P1 P2 Mountainous Terrain Flying P1 P2 Aerial Ignition (PSD) P1 P2 Aerial Ignition (Torch) P1 P2 Rappel Operations P1 P2 Cargo Letdown P1 P2	Vessel Landings P1 P2 P2 Night Vision Goggle Operations P1 P2 ACETA Net Gun (All ACETA) P1 P2 ACETA Eradication P1 P2 ACETA (Herding) P1 P2 ACETA Darting-Paintball P1 P2
Snow Operations (Deep Snow) P1 P2 Hoist P1 P2 UAS P1 P2 UAS P1 P2	STEP P1 P2 Click here to enter text.

Flight Following	And Frequencies:				
	•	='	es during briefing	g prior to flight*	
FAA Flight			•	ed mission) no frequencies	required
_			•	nunications and flight plan	•
Flight Following				or GACC aircraft desk)	
•	•		•		
_	: (Agency-owned o	•			
FAA Flight Plan	: (Charter aircraft r	non-agenc	y controlled miss	sion) 📋	
FM Receive:	See attached	FM Trans	mit: Click here to	enter RX: Choose	an item.
Radio Plan		text.		-1	
				TX: Choose	an item.
EM Pacaiva: Cli	ck here to enter	EM Trans	mit: Click here to	enter RX: Choose	an itom
	ck liefe to effet		onine. Click liefe to	KX. CHOOSE	annen.
text.		text.		TX: Choose	an item.
FM Receive: Cli	ck here to enter	FM Trans	mit: Click here to	enter TX: Choose	an item.
text.		text.		RX: Choose	an item
				IX. enouse	an item.
AM Receive: TE	BD	AM Tran	nsmit: Click her	re to No To	ne
		enter tex	t.		
			•		
				L	
Mission supe	ervisor will coordin	nate Temp	orary Flight Rest	rictions (TFR) with dispatcl	h if needed
				() (0.00.010)	
Military Trainin	g Route(s) (MTR'S) or Milita	ry Operating Are	a(s) (MOA'S)	
Mission super	visor alternate su	nervisor o	r delegated man:	ager shall confirm deconfli	ction in these
-				· •	
routes	and areas prior to	the ilight	. with dispatch of	other approved local met	nous.
Deconfliction	will be addressed o	during the	aviation safety p	olan briefing. Add Addition	al MTR-MOA
		•	end of the docum	•	
MTR-MOA	Route Legs-Alt	itudes	Activity	Time	Time Zone
	Begins SE of Cody, WY	and ends			
near Palisades L					
	of the route is from 100			Start: Click here to	
13,000 feet MSL 1-4 nautica either side of centerline. Ho			Hot		
IR 499	operation are conti		Cold	enter text.	UTC
	Scheduling Activity is	through	colu 🔛	Stop: Click here to enter	Local 🗌
	Offutt AFB. Originating		N/A	text.	
	through Ellsworth Air F	-	, 🗀	iexi.	
	South Dakota (phone : 1230) or (on call #605-				

Additional medical information attached? YES NO

Crash Rescue/Medivac Plan – Brief applicable resources on local MISHAP Response plan and notify TIDC (307-739-3630) for implementation of the plan.
General Instructions (in the event of an incident): Mission site duties and actions to be coordinated through dispatch in accordance with local search & rescue (SAR) and emergency crash rescue plan(s). These items will be discussed and recorded during the daily safety briefing.
Specified crash rescue duties will be assigned to ground operations personnel each day before flights of any kind. Crash rescue and first aid equipment will be located near the helicopter operations site, and equipment's location made known to all personnel. Information and instructions will be sent/received through the local dispatch office or communications.
EMT(s) on site: YES NO UNKNOWN
Names: Click here to enter text.
First responder(s) on site: YES NO UNKNOWN
Names: Click here to enter text.
Available medivac helicopter(s)? YES UNKNOWN
*Unknown: Select if medivac helicopter is not to be ordered for the mission or incident prior to need. The helicopter will be ordered on demand through the dispatch process. Dispatch will provide medivac ship call sign or tail number, including capabilities and contact information. *
Medivac helicopter on site? YES NO NO
Level of care medivac helicopter personnel can provide: ALS BLS UNKNOWN \
FAA Tail #(s) Click here to enter text. Contact Information: Click here to enter text.
Hoist/Rappel/Extraction Capable? YES NO UNKNOWN
Check all that apply: Hoist Rappel Short Haul

				remain seated and					
		flights, approved secondary restraint harness for doors off flights (only for PLDO, HRAP, HRSP, Aerial Photography, IR Operator, ACETA Gunner, Cargo Letdown, Short Haul Spotter, Cargo Free Fall Operations-type 3 helicopter) * Refer to							
	1.17.1		**C	appropriate gu		*			
Doors Off or Doors Open Flig	ght(s)			afety Alert IASA 18-0					
		mission flight, or o	that r pen d	nnel involved in any equire aircraft door: luring flight, shall re fresher training pric operations	s to be remove ceive hands-or to conduct	ved prior to on secondary			
Doors Off or Open Operations che	cklist:	**All items s	shall b	ne covered and signe	ed for prior to	operations**			
Aircraft connection point and	secono	dary restraint	conf	iguration (Interager	ncy Safety Ale	rt IASA 17-02)			
Proper donning and adjustmen	nt of se	econdary res	traint	system.					
Have an understanding of the	secon	dary restrain	t inte	eraction with FAA ap	proved seat	oelts.			
Potential of secondary restrain	nt inte	erference wit	h Airk	ous AS 350 fuel shut	off lever if ap	plicable.			
☐ Know location and use of seco	ondary	restraint int	eract	ion quick- release.					
Perform buddy–check and Pilo	ot in C	ommand che	ck of	secondary restraint	s before fligh	t.			
Practice egress with secondar	y restr	aint quick-re	lease	mechanism and fur	nction of seat	belt.			
☐ Know location and use of resc	ue kni	fe.							
Briefing Checklist:									
Vendor Name:	Aircr	aft Model:		Aircraft Make:	FAA#:				
Project Supervisor/Manager:	Date	2:		Pilot:	Date:				
					<u> </u>	,			
Participants Name		Date		Participants Na	ame:	Date			

Medical Facility	Coordinates/Physical Address	Helipad	Phone #
Pinedale Medical Clinic	(42 52.062N x 109 51.179W)	Y	307.367.4133
Maublaton /Dia	625 E Hennick, Pinedale WY	V	
Marbleton/Big Piney Clinic	(42 35.00N x 110 06.00W) 103 W 3 rd Street, Marbleton, WY	Y	307.276.3306/3308 EMS Barn 307-276-3032
Star Valley Hospital	(42 43.06N x 110 55.86W)	Y	307.885.5800/5821
	901 Adams St. Afton,LZ north of building		
S. Lincoln Med. Center	(41 50.20N x 100 30.14W)	Y	307.877.4401
	Kemmerer, SW of Hospital		
St Johns Hospital	(43 28.806N x 110 44.988W)	Y	ER 307.739.7251
	Freq 155.340 rx/tx with tx tone 82.5		
	Gross Weight Limit of 12,000 lbs		
	625 E Broadway, Jackson WY		
Memorial	(41 35.16N x 109 14.08W)	Y	
Hospital of Sweetwater	FAA Identifier: KWY49		ER 307.352.8351
County	1200 College Dr. Rock Spgs WY		
Eastern Idaho	(43 28.26N x 111 59.50W)	Υ	
Regional Med Center			208.227.2000
	FAA Identifier: KID18		
	3100 Channing Way, Id Falls ID		
McKay Dee	(41 10.98N x 111 57.30W)	Y	801.387.2800
	FAA Identifier: KUT16		
	Ogden, UT		
LDS Hospital	(40 46.75W x 111 52.80W)	Y	ER 801.408.1181
	FAA Identifier: KUT55		
	Salt Lake City, UT		
Universityof Utah	(40 46.34N x 111 50.24W)	Y	ER 801.581.2293
(BURN CENTER)	FAA Identifier: KUT21		Burn Center
	Salt Lake City UT		801.581.2700
Ogden Regional	(41 9.88N x 111 58.28W)	Y	ER 801.479.2376
	FAA Identifier: K54UT		
	Ogden, UT		

	GROUP 1	0 - Teton I	BT N RP 171.3875 164.1375 110.9 N						
Chnl #	Site Name		RX Freq		TX Freq		Narrow/ Wide		
1	BT North Net Direct	BT N DIR	171.3875		171.3875	107.2	N		
2	BT North Net Repeat	BT N RP	171.3875		164.1375	110.9	N		
3	BT South Net Direct	BT S DIR	169.9000		169.9000	123.0	N		
4	BT South Net Repeat	BT S RP	169.9000		165.0125	131.8	N		
5	Air-to-Ground 10	A/G 10	166.9375		166.9375	136.5	N		
6	Air-to-Ground 19	A/G 19	168.1250		168.1250	146.2	N		
7	Air-to-Ground 12	A/G 12	167.0750		167.0750	156.7	N		
8	Region 4 Tac 1	R4 TAC 1	166.8125		166.8125	167.9	N		
9	Region 4 Tac 2	R4 TAC 2	166.8875		166.8875	131.8	N		
10	Region 4 Tac 3	R4 TAC 3	169.1750		169.1750	131.8	N		
11	Teton Co Search and Rescue	SAR DIR	151.1975		151.1975	127.3	N		
12	DECK	DECK	163.1000		163.1000	100.0	N		
13	Grand Teton SAR	GT SAR	172.4250		172.4250	123.0	N		
14	Grand Teton NP Direct	GT DIR	171.6750		171.6750	123.0	N		
15	Grand Teton NP Repeat	GT RP	171.6750		164.9500	123.0	N		
16	Air Guard	AIRGUARD	168.6250		168.6250	110.9	N		

- **Tone Picklist** 107.2 Green Knoll Repeater
- 110.9 Ramshorn, Hawks Rest Repeaters 123.0 Gravel, Pinyon Repeaters 131.8 Elkhart Repeater, TACs 136.5 Lava, Muddy Repeaters

- 146.2 Bradley Repeater (North and South) 156.7 Bacon, Deadline Repeaters
- 167.9 Rendezvous, Sage Repeaters 100.0 Graham Repeater

Daily UAS Mission Checklist			
A. Chain of command, individual roles and responsibilities are identified to all participants?	Yes	No	NA
B. Project Aviation Safety Plan is approved and signed at the appropriate levels?	Yes	No	NA
C. Is the emergency evacuation plan reviewed?	Yes	No	NA
D. Are all elements in place to track the UAV at all times?	Yes	No	NA
Can terrain, altitude, temperature or weather that could have an adverse effect be mitigated?	Yes	No	NA
F. Are all aerial hazards identified and known to all participants?	Yes	No	NA
G. Have ground operations hazards and safety been identified to all participants?	Yes	No	NA
H. Have mitigating measures been taken to avoid conflicts with military or civilian aircraft?	Yes	No	NA
Have adequate landing areas been identified and or improved to minimum	Yes	No	NA
J. Are all agency personnel qualified for the mission?	Yes	No	NA
K. Are there enough (qualified) agency personnel to accomplish the mission safely?	Yes	No	NA
L. Is the pilot carded and experienced for the mission to be conducted?	Yes	No	NA
M. Will adequate briefings be conducted prior to flight with all participants?	Yes	No	NA
N. Is the aircraft capable of performing the mission with a margin of safety?	Yes	No	NA
Does the aircraft have the capability to perform the mission based on predicted weather conditions?	Yes	No	NA
P. Is the aircraft properly carded?	Yes	No	NA
Q. Do all personnel have the required PPE?	Yes	No	NA
R. Remember; maps of areas/sites, handheld radios, cell phones.	Yes	No	NA
S. Are pilot flight and duty times compromised?	Yes	No	NA
T. Is there an alternative method that would accomplish the mission more safely?	Yes	No	NA
U. Have the proper approvals been given by FAA?	Yes	No	NA
If flying in Restricted Airspace, has notification been made with controlling authority prior to launching sUAS?	Yes	No	NA
W. Other? (identify) NOTAM on File	Yes	No	NA
X. Other? (identify) Aerial Hazard Map reviewed	Yes	No	NA
Y. Other? (identify) Dispatch notified of flights	Yes	No	NA
UAS Crew Leader Signature:			

LOCAL AIRPORTS AND FIXED BASE OPERATORS:

Jackson Hole (JAC) N 43 36.44′ x W 110 44.27

Elevation: 6451 feet MSL Tower Frequency: 118.075

UNICOM: 122.950 GROUND: 124.55 Fuel: Avgas, Jet A

Owner: JH Airport Board – 307-733-7682 Manager: Jim Elwood – 307-733-7682 FBO: Jackson Hole Aviation: 307-733-4767

Operating Hours - 0600 - 2200

Afton (AFO) N 42 42.49 x W 110 56.53

Elevation: 6221 feet MSL

UNICOM: 122.8

Fuel: Avgas, Jet A - 24 hr. credit card service Owner: Town of Afton – 307-885-8696

Afton FBO: 307-885-7030

Manager: Rick Sessions - 307-885-3245 or 307-887-3246

Alpine (46U) N 43 11.08 x W 110 02.55

Elevation: 5634 feet MSL

UNICOM: 122.9

Fuel: Avgas, Jet A – 24 hr. credit card service

Owner: Bill Weiman - 307-654-4646

Manager: 701-367-6161

Alpine Airpark: Scot Cook – 307-630-5212

After hours - 307-713-1313

Big Piney-Marbleton (BPI) N 42 35.11 x W 110 06.67

Elevation: 6990 feet MSL

UNICOM: 122.8

Fuel: Avgas, Jet A - 24 hr. credit card service and Jet A truck available

Owner: Public - Big Piney/Marbleton - 307-276-4022

Manager: Phil Stevens - 307-231-5516

Pinedale (PNA) N 42 47.73 x W 109 48.66

Elevation: 7288 feet MSL

UNICOM: 122.8

Fuel: Avgas, Jet A - 24 hr. credit card service Owner: Town of Pinedale - 307-367-4136 Manager: Jim Parker – 307-360-9025 24 hour #307-413-7888 (John Douglas)

Kemmerer (EMM) N 41 49.50 x W 110 33.54

Elevation: 7282 feet MSL

UNICOM: 122.8

Fuel: Avgas, Jet A - 24 hr. credit card service Owner: Public – Kemmerer – 307-828-4061 Manager – Chad Nielson – 307-727-7865